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IN THE UNITED STATES DISTR	ICT COURT	
SILAS CALHOUN, et al.,	}	
Plaintiffs,)) Case No.	
vs.) 04-10480-RGS	
UNITED STATES OF AMERICA, et al.,))	
Defendants.)	
	j	
VIDEOTAPED DEPOSITION OF DOUGLAS M April 6, 2007		
Seattle, Washington		
Reported by:		
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variety of different tests and techniques that we use to understand that. Our specialty is in looking at the whole wide range of different abilities that can be affected by neurological injuries: Head injuries, strokes, dementia, learning disabilities, attention deficit disorder, you name it. If it affects the brain, that's really what our interest and specialty is in. So we give a lot of different tests. Some of them are tests that many psychologists will use like the Wechsler adult intelligence scale. Others are more specialized for neuropsychology which really get at kind of fine grained or more difficult to discern sorts of cognizant deficits that may not be readily apparent just to the casual observer. Sorry.

- Q. Is the testing that you do designed to reveal cognitive deficits even where there are no gross neurological deficits?
 - A. Well, yeah, there's different types of deficits that can happen after brain injury. Sometimes they're quite apparent. For example, somebody might be what we call hemiparetic, in other words, an entire side of their body may be paralyzed because of, say, a stroke. That's a pretty gross obvious problem that, you know, really pretty much anybody can see.

But neuropsychology developed out of essentially historically the second world war and veterans coming back with head injuries who had a variety of cognitive problems that were affecting them functionally. You know, they

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couldn't adopt and live in the world but there wasn't these

obvious problems like the hemiparesis. So over the years,

over the last 40 or 50 years neuropsychology has developed a

wide range of techniques that look at a variety of cognitive

domains such as attention and concentration, memory, language

processing, executive functioning, you know, like

decision-making, problem solving, visual spacial abilities

and emotional functioning.

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And the short answer to your question is yes, we do look at and actually specialize in finding deficits that are not necessarily the gross things that you might see on a bedside neurological evaluation.

- Q. Doctor, at my request did you evaluate Estella Calhoun to
 determine if she had any cognitive impairments and whether
 any of those impairments resulted from the brain injuries she
 suffered in her infancy?
- 17 A. Yes. You had requested that I do a thorough
 18 neuropsychological evaluation on her because you were
 19 concerned about residual cognitive and behavioral problems
 20 from this injury she had as a newborn and I did do that last
 21 year in May.
- Q. What did you do in preparation for your report that you issued back last spring?
- A. Yes. I reviewed a large number of medical records that you had -- that you had forwarded to me, hospital records,

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focused on the tasks that affected her performance. On the
whole it looked like her language processing was generally
pretty good. So yeah, so there were several areas where she
did -- where she did just fine.

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- Q. Where did the testing indicate that there were some problems?
- A. Well, there were two main areas that I noticed that she had difficulty. One was on several of the assessment tasks she had some trouble with concentration and attention, keeping her attention focused to tasks. This wasn't an all the time sort of problem, but it did come up from time to time.

Counterbalancing that, I noticed that when we provided a lot of structure for her when it was really a well structured task and kept her going with that, she could be redirected easily. She did tend to get a little bit more distractible later on in the evaluation, not terribly unusual for children, but she could be redirected as long as there was a lot of structure for her.

so there were some concentration problems, but she responded really well to structure. And then the other piece that I noticed that was a problem for her was in integrating visual spacial abilities, in other words, her ability to perceive visual stimuli such as a drawing and being able to integrate a motor response, in other words, a drawing task. In other words, she has to look at a fairly complex design or picture and then copy it as accurately as she can. That was

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Page 16 really a struggle for her. She had quite a bit of difficulty 1 with that -- with that rather complex integrative process. Let me understand that and if you can explain it to the 3 Court. 5 Α. Sure. Is she shown -- is she shown a diagram? 6 Ο. It's a fairly abstract line drawing, that has a lot of 7 small parts to it so a lot of little details, and the child 8 or adult is asked to copy this as closely as they can. 9 like all of our tests, we have norms. So in other words, 10 we're able to compare her performance with other children of 11 her age and kind of get a sense of what would be typical, you 1.2 know, in terms of her ability because obviously a 13 six-year-old is not going to do the same as a 12-year-old who 14 is not going to do the same as a 25-year-old. So I'm able to 15 compare how well she can do with other -- with other 16 six-year-olds, and what I noticed was she had a lot of 17 difficulty on this. In fact, she was in what we call the 18 mildly impaired range at about the fifth percentile, so she 19 struggled quite a bit with this task. 20 When you say fifth percentile, that means that 95 percent of 21 Q. the people who would be shown and asked to perform this task 22 would perform it better than she would? 23 Objection; leading. MR. GIEDT: 24 THE WITNESS: Okay. 25

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terms of copying the same thing with her hand, okay.

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So that ability to imitate hand positions also gave her a lot of difficulty so we have two different types of tasks requiring two different types of responses but with the same underlying cognitive ability. That was really where her challenge was and that was kind of the common underlying deficit that she had on the evaluation in this domain.

- Q. In terms of that deficit, how does that translate into the child's functioning, Estella's functioning on a day-to-day basis in various domains?
- Well, children who have these sorts of difficulties in terms 1.1 of accurately perceiving and integrating visual information 12 can have a variety of different problems. One common problem 13 that I see is with, like mathematics for example, children 14 with visual spacial or visual motor problems often will have 15 difficulty doing math because if you think about it, math is 16 a very visual sort of ability. You know, everything from, 17 you know, lining up numbers to more complex things such as, 18 you know, geometry, trigonometry. You know, in all the 19 different levels of learning math it's really a very spacial 20 So if somebody is having trouble with skill that we have. 21 those kind of visual spacial abilities, it often times will 22 lead to trouble with mathematics. So when I do like a 2.3 learning disability evaluation, I often -- and I find math 2.4 disabilities I will often look for these sorts of visual 25

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spacial problems to see if that's what's causing it and many times it is.

Another common problem is the ability to pick up like social cues, being able to accurately perceive and understand kind of social interaction. So it can be difficult in people who have these sorts of problems to be able to kind of process, understand, integrate subtle complex social cues, which if you think about it are quite visual in nature. So those are some of the problems that potentially could come up.

There's other problems, for example, with reading. If children are misperceiving, you know, the structure of letters, you know, it's going to be more difficult to read. Commonly in, you know, dyslexia, which is a reading learning disability, there are children who have that sort of problem where it's really a visual processing problem. There are other children who have it as more of an auditory processing problem, but that's another area that children could be at quite a bit of risk when they have these sorts of visual processing problems.

- Q. Were there any other areas of concern or any other particular tests which struck you as significant?
- 23 A. The -- I should say something about, you know, some of the 24 other tests like, for example, that the parents completed. 25 The parents noted some, like, somatic complaints: Nausea,

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so, you know, that discrepancy between the verbal IQ and the performance IQ is consistent with the sorts of difficulties that I had picked up on here with this evaluation.

I should say that with this testing that I did, the IQ scores didn't pick up this deficit as much as the more specialized neuropsychological test picked it up. That's also not unusual. Like I said, neuropsychological tests are designed to get at more of these fine grained difficulties. IQ scores they're great, but they're really kind of just a big picture sort of thing and they do vary quite a bit. That's why we do the more specialized testing. But I would say as a bottom line, yes, this result is consistent with the school results from 2003 and I think the school was picking up the same things that I picked up here.

- 15 Q. Do you have an opinion to a reasonable degree of certainty as
 16 to whether the cognitive deficit in visual motor functioning,
 17 the visual deficits that you've picked up is likely to have
 18 an affect on Estella's academic functioning?
- 19 A. Yes, I do. So you're asking about -- let me just make sure I
 20 understand what you're asking. Are you asking would the
 21 cognitive deficits that I observed have an impact or an
 22 adverse impact on her academic functioning down the road? I
 23 just want to make sure I'm understanding your question.
- Q. Both currently and down the road.

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25 A. Okay. Yes. I would say that to a reasonable degree of

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1		p.m. and we're going to go off the record. Thank you.
2		(Recess 1:45-1:46.)
3		THE VIDEOGRAPHER: The time is now the
4		time is now 1:46 and we're back on record. Thank you.
5		
6		EXAMINATION (Continuing)
7		BY MR. APPEL:
8	Q.	Dr. Whiteside, I'm sorry. As you're probably aware we just
9		had a technical glitch and Attorney Giedt and I here could
10		not hear your last answer. I wonder if we can just repeat
11		that.
12	Α.	Yeah, as I understand it it did get on the record but you
13		guys obviously didn't hear it. Basically what I said and
14		I don't know how much of my answer you caught and didn't
15		catch. But bottom line I was discussing the STAR math report
16		and indicated that the results of this report found that she
17		was at the fifth percentile in math and was at a 0.4 grade
18		equivalent which means that she was at approximately the
19		fourth month of her kindergarten year in terms of her
20		equivalence on math and she was actually physically at the
21		time of this report in about the sixth month of her first
22		grade year. So she's over a year behind in mathematics.
23		The other interesting piece is that in terms of just
24		her grade equivalent she hasn't really changed significantly
25		since I evaluated her last year which is quite concerning.

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1		So she comes out at the fifth percentile and that's, once
2		again, in that mildly impaired range as I conceptualize it,
3		and this result is very consistent with the underlying
4		cognitive deficits that I found in the evaluation last year.
5	Q.	Do you have an opinion to a reasonable degree of
6		psychological certainty as to whether or not her cognitive
7		impairments are actually affecting her academic functioning
8		in math at the present time?
9	A.	I I would say that once again on a more-probable-than-not
10		basis that yes, it is. Students oftentimes, as I indicated
11		earlier, will have problems with areas like mathematics if
12		they have difficulty with visual processing abilities which
13		the assessment results clearly indicated that she did. So
14		this is a common pattern that I see in a lot of children with
15		these types of problems and mathematics seems to be a
16		particularly vulnerable area for children. So yes.
17	Q.	Now, in terms of her future functioning, what is the
18		prognosis?
19	A.	Well, I would say that given the evidence I'm sorry.
20		MR. APPEL: You can go on.
21		THE REPORTER: I didn't hear your
22		objection at all.
23		MR. GIEDT: My objection was that he's
24		opining on an area that was not included within the content
25		of his report in terms of prognosis. So I'm objecting and

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- moving to strike the testimony, but since we're in a video deposition you can go on.
- Q. (BY MR. APPEL) You can continue, Dr. Whiteside.

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A. Well, based on the new evidence here we're clearly seeing a

pattern of problems with math and the startling piece of

evidence is that she's really not progressing in mathematics

over the course of a year which really is quite concerning to

me. And I would say that this is probably -- if I had to

rank order them, this would be the greatest area of concern

that I have for Estella for the future given the particular

types of deficits that she has and this additional data

because we're clearly seeing a problem unfolding.

This is not unusual in children because, you know, children develop and progress quite a bit during these years. So problems that may not be quite as evident at one point in time become clearer as you get a longer baseline. So at time one, which say was when I saw her, you know, she was essentially in kindergarten so there's not a lot of variance, not a lot of variability in what kids do so she came out fairly typical. But now we have time from that point to this point, almost a year, where we're seeing her progression kind of going like this (indicating) not really doing much whereas other children are going like this (indicating.) So whereas last year she was here (indicating) where most children are over time this split is getting wider and wider.

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And for example when you have like a learning disability in math, this pattern is not uncommon and if children don't have interventions, don't have treatment, quote, unquote, accommodation, special education programs, this pattern becomes more and more evident. Even with interventions it can be -- still be a problem. So I see that as once again a common pattern, happens all the time with children. And this is probably an area of very significant need that, you know, the professionals need to help her with.

Other areas of risk are essentially the things that I talked about before. You know, I'm concerned about her social development. If she's having trouble with visual processing, picking up on visual cues, you know, she's at risk for developing problems in that area and there's the potential for risk in terms of abilities like reading that may not be as evident at this point but may become more evident as the reading material gets more and more complex. So I would say she's at least at risk for problems in those areas as well as the math.

- Q. Do these problems become more manifest or more clearer as the child gets older and has to respond to more complex information and challenges?
- A. Yes, that's -- that's very common. I'm sorry. I didn't hear that.
- 25 Q. You may continue your answer.

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1 Estella.

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The behavioral issues that Dr. Elwyn noted are many times in many children founded on these sorts of cognitive issues, particularly the attention concentration. So in that respect I'm saying that my -- the neurocognitive disorder -- sorry, I can't talk today -- deficits that I found today are consistent with a child who manifests attention deficit disorder. You do see these types of problems in children with that sort of disorder, yes.

- 10 Q. Do you have an opinion to a reasonable degree of
 11 psychological certainty as to whether the brain injuries that
 12 Estella suffered as an infant are a significant contributing
 13 factor in her -- the development of her cognitive deficits?
- 14 A. Can you rephrase that? I just wasn't quite sure. I want to
 15 just make sure I really understand your question.
- Q. Yeah. Do you have -- do you have an opinion to a reasonable degree of certainty as to whether or not her early brain injuries are a substantial contributing factor in the development of these cognitive deficits?
- 20 A. Oh, okay. Yes, I do have an opinion about that. It's my
 21 opinion that -- once again to a reasonable degree of
 22 psychological certainty -- the early neurological injuries
 23 account for, are consistent with the neurocognitive deficits
 24 that I noted at this time. In particular, there's evidence
 25 that she had hemorrhages affecting parts of the right

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cerebral hemisphere. There's an extensive body of research literature that demonstrates that these sorts of lesions whether it's called by a hemorrhage or an infarct or a seizure or whatever in the right cerebral hemisphere do cause various problems with processing visual information, and that's exactly the pattern we saw with Estella here.

As I said, a couple good things is that on the big scheme of things she's in the mildly impaired range not the severely impaired range, but that doesn't mean that she's functioning as a typical six-year-old. You know, she's clearly having much more difficulty than that.

So it's always in many cases like this a good news/bad news thing. The good news is that there's things that everybody with cork with. She's not so impaired that, you know, she's hemiparetic. She's not so impaired that she will never be able to succeed. But she's impaired enough that she's going to need extra help, extra assistance, and that ties back to in my opinion the underlying neurological injuries that she had.

- Q. What recommendations would you make, Dr. Elwyn, (sic) to give her the kind of assistance to give her the best chance academically?
- 23 A. I believe you might have just called me Dr. Elwyn.
- Q. Oh, I'm sorry. I'm sorry, Dr. Whiteside. Lots of doctors.
- 25 I'm sorry.

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